

Date: Mon, 13 Dec 93 04:30:15 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1457  
To: Info-Hams

Info-Hams Digest                      Mon, 13 Dec 93                      Volume 93 : Issue 1457

Today's Topics:

10-Codes used by law enforcement  
    dp v3.5 and patch  
    Graph Packet version 1.61  
    help pl encode/decode  
Info sought on QUANTUM batt. packs  
    money money money  
Receive broadcast FM on 2m mobile antenna?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----

Date: 9 Dec 93 19:50:40 GMT  
From: olivea!isc-br!tau-ceti!comtch!opus-ovh!bmork@uunet.uu.net  
Subject: 10-Codes used by law enforcement  
To: info-hams@ucsd.edu

10-0 Caution  
10-1 Unable copy--change location  
10-2 Signal good  
10-3 Stop transmitting  
10-4 Acknowledgement (ok)  
10-5 Relay  
10-6 Busy--stand by unless urgent  
10-7 Out of service  
10-8 In service  
10-9 Repeat  
10-10 Flight in progress

10-11 Dog case  
10-12 Stand by (stop)  
10-13 Weather--road report  
10-14 Prowler report  
10-15 Civil disturbance  
10-16 Domestic problem  
10-17 Meet complainant  
10-18 Complete assignment quickly  
10-19 Return to ...  
10-20 Location  
10-21 Call ... by telephone  
10-22 Disregard  
10-23 Arrived at scene  
10-24 Assignment completed  
10-25 Report in person (meet) ...  
10-26 Detaining subject, expedite  
10-27 (Drivers) license information  
10-28 Vehicle registration information  
10-29 Check record for wanted  
10-30 Illegal use of radio  
10-31 Crime in progress  
10-32 Man with gun  
10-33 EMERGENCY  
10-34 Riot  
10-35 Major crime alert  
10-36 (Investigate) suspicious vehicle  
10-38 Stopping suspicious vehicle  
10-39 Urgent--use light, siren  
10-40 Silent run--no light, siren  
10-41 Beginning tour of duty  
10-42 Ending tour of duty  
10-43 Information  
10-44 Request permission to leave  
patrol ... for ...  
10-45 Animal carcass in ... lane at ...  
10-46 Assist motorist  
10-47 Emergency road repairs needed  
10-48 Traffic standard needs repairs  
10-49 Traffic light out at ...  
10-50 Accident (F, PI, PD)  
10-51 Wrecker needed  
10-52 Ambulance needed  
10-53 Road blocked at ...  
10-54 Livestock on highway  
10-55 Intoxicated driver  
10-56 Intoxicated pedestrian  
10-57 Hit and run (F, PI, PD)  
10-58 Direct traffic

10-59 Convoy or escort  
10-60 Squad in vicinity  
10-61 Personnel in area  
10-62 Reply to message  
10-63 Prepare make written copy  
10-64 Message for local delivery  
10-65 Net message assignment  
10-66 Message cancellation  
10-67 Clear for net message  
10-68 Dispatch information  
10-69 Message received  
10-70 Fire alarm  
10-71 Advise nature of fire  
10-72 Report progress on fire  
10-73 Smoke report  
10-74 Negative  
10-75 In contact with  
10-76 En route  
10-77 ETA (Estimated Time Arrival)  
10-78 Need assistance  
10-79 Notify coroner  
10-80 Chase in progress  
10-81 Breatherlizer report  
10-82 Reserve lodging  
10-83 Work school xing at ...  
10-84 If meeting ... advice T  
10-85 Delayed due to ...  
10-86 Officer/operator on duty  
10-87 Pickup/distribute checks  
10-88 Advise present telephone# of ...  
10-89 Bomb threat  
10-90 Bank alarm at ...  
10-91 Pick up prisoner/subject  
10-92 Improperly parked vehicle  
10-93 Blockade  
10-94 Drag racing  
10-95 Prisoner/subject in custody  
10-96 Mental subject  
10-97 Check (test) signal  
10-98 Prison/jail break  
10-99 Records indicate wanted or stolen

---

Brian Mork     Internet bmork@opus-ovh.spk.wa.us  
  . . .     Amateur Radio (AX.25) ka9snf@wb7nnf.#spokn.wa.usa  
... . .     USMail 6006-B Eaker, Fairchild, WA 99011

-----

Date: Fri, 10 Dec 1993 18:38:33 GMT  
From: zib-berlin.de!news.belwue.de!news.dfn.de!solaris.rz.tu-clausthal.de!  
helios.rz.tu-clausthal.de!hiot@uunet.uu.net  
Subject: dp v3.5 and patch  
To: info-hams@ucsd.edu

Hello OM or YL,

DIGIPOINT v3.5 and the patch (v3.5 to v3.5.01) is now on the FTP-Server  
for HAM-Radio-Software

ftp.tu-clausthal.de

digipoint is a pr-terminal, pr-box and sat-tracking software with  
multilanguage support for the ATARI ST/STE/TT/Falcon computer.

73

--

/ / / /  
 / / / /  
 /\_/\_/ /\_/\_ /\_/\_

Oliver Teuber  
Schulweg 8  
D-37534 Badenhausen

hiot@sun.rz.tu-claustahl.de  
DH00AE@DB0KG

ftp.tu-clausthal.de: FTP-Server fuer HAM-RADIO,ATARI,UNIX,DOS,LINUX,MAC,AMIGA

-----  
Date: 13 Dec 93 10:31:41 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Graph Packet version 1.61  
To: info-hams@ucsd.edu

Hello,

Last week I have uploaded the latest version Graph Packet (GP) to ucsd.edu.  
It can be used in combination with a tnc/2 or a baycom modem with tfpcx.  
I will upload the latest version of tfpcx 2.1 which allows you to use multiports  
and SCC cards like the PA0HZP card of the BAYCOM USCC card.

Although it is HAM-public domain software, please read the notes in the  
documentation.

Best '73 Freerk PE10PI

--

\*\*\*\*\*  
\* F.J. Bosscha \* Phone : xx-3158961435 \*  
\* System administrator/-programmer \* \*

```

* Faculteit Techniek,Economie & Management * Alt. Phone : xx-3158961444 *
* Noordelijke Hogeschool Leeuwarden *
* Fonteinland 7 * FAX : xx-3158150125 *
* 8913 CZ Leeuwarden *
* The Netherlands *
* -----*
* internet mail : bosscha@beheer.tem.nhl.nl *
* AX-25 mail : pelopi @ pi8fwd.#firl.nld *
*****

```

```

-----
Date: Sat, 11 Dec 93 20:17:29 MST
From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!asuvax!ennews!stat!rangr!
adam@ames.arpa
Subject: help pl encode/decode
To: info-hams@ucsd.edu

```

kev@nauvax.ucc.nau.edu writes:

```

> The local repeater just had the pl code turned on. My OLD kenwood
> tr2600 can't handle the sophistication. Does anyone have any info
> on how I can modify this radio to handle pl encode and decode? I
> guess the other alternative is to buy another radio.....
> On another matter, does anyone have a mike (or a clone) for this radio?
> Thanks
> n7sqw -- keith -- kev@a1.ucc.nau.edu
Hello Keith,I can probably help you out.There is a company called
communications specialist that can provide a ctcss encoder board
that is universal.Check with one of the radio shops up in your
area or the local radio club folks may be able to help.Worst case
call me and Ill see if I cant find some one to help out.Im at 602
-840-7810.The cost of the board is about $30.Good luck.

```

```

---
internet: adam@rangr.stat.com

```

```

-----
Date: Sun, 12 Dec 1993 14:54:15 GMT
From: agate!howland.reston.ans.net!newsserver.jvnc.net!yale.edu!cs.yale.edu!
ccsua.ctstateu.edu!white@ames.arpa
Subject: Info sought on QUANTUM batt. packs
To: info-hams@ucsd.edu

```

I've been looking at battery packs for my TH78a.... Has anyone used the QUANTUM battery packs? Any feedback appreciated.

73s de N1QVE Harry white@csusys.ctstateu.edu

-----  
Date: Tue, 7 Dec 1993 16:48:30 +0000  
From: sdd.hp.com!sgiblab!swrinde!cs.utexas.edu!howland.reston.ans.net!pipex!uknet!  
demon!abacus!dmb@network.ucsd.edu  
Subject: money money money  
To: info-hams@ucsd.edu

In article <CHBJI0.6zA@sparc0a.cs.uiuc.edu>,  
<pardee@sparc3.cs.uiuc.edu> wrote:

[ extreme bullshit deleted ]

Does this kind of thing screw your spelling ? Note how many of the testifiers  
to the success of this crap spell "letters" as "lefters", "10" "1 0" etc.  
(or could they all be the same person ? Nah .. don't be cynical)

Sorry for wasting space even commenting on this garbage ..

73,

David.

--

David Byrne, Abacus Software, London, UK                      Tel: +44 71 930 4884  
Email: dmb@abacus.demon.co.uk                                  Fax: +44 71 839 7445  
Here's a koan: If you have ice-cream I will give you some. If you have none,  
                  I will take it away from you. (it's an ice-cream koan).

-----  
Date: Sat, 11 Dec 93 19:58:20 MST  
From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!asuvax!ennews!stat!rangr!  
adam@ames.arpa  
Subject: Receive broadcast FM on 2m mobile antenna?  
To: info-hams@ucsd.edu

riyadth@boi.hp.com (Riyadth Al-Kazily) writes:

>  
> Hello,  
>  
> I was wondering.. (here I go, getting myself in trouble again!) .. if  
> it would be possible to install a 2m antenna on my car in place of my  
> standard antenna, and have some type of adapter that would allow me to  
> use it with a(n) HT and also with my stereo (without damaging either one).  
> Has anyone tried this? I don't know how broadcast AM/FM reception will

> be affected, but everything I listen to around here can be heard with  
> little or no antenna at all, so I don't think that will suffer too much.  
>  
> I remember seeing combination CB/AM/FM antennas advertised in the  
> past, with some kind of isolator to prevent the CB from overloading the  
> AM/FM receiver. Is there any similar product for Amateur Radio use?  
> Otherwise, I guess I'll just buy a magnetic mount antenna for amateur  
> use -- but it sure would be nice to have a more permanent solution.  
>  
> -Riyadth Al-Kazily  
> riyadth@boi.hp.com  
> --  
> { Riyadth Al-Kazily KB7YWE DoD #295 '83 BMW R65 '77 Volvo 242DL }  
> { riyadth@boi.hp.com | When am i going to have time to use all this }  
> { (208) 396-4987 | stuff I'm collecting? More important, how can }  
> { Boise, Idaho | I get more stuff? Amiga 500+ (+ stuff, that is) }

There are several companies that make what is commonly referred to as  
"disguise" antennas. These are made to take the place of the regular  
broadcast antenna, and when combined with a coupler, will also function  
as a broadcast antenna. One of the companies is Antenna Specialist Co.  
at 216-349-8400. Another, which I would recommend, is STI-CO Industries  
at 716-662-2680. Both of these companies will sell direct or send you  
to a local distributor. One additional piece of info is that Barker  
-Williamson use to make a tuner for your purpose. I don't know if they  
are still in business. I should warn you that "disguise" antennas are  
very expensive but work fairly good. I use an antenna specialist model  
for 6 meters on my chevy and have had no problems. Good luck!

---

internet: adam@rangr.stat.com

-----

Date: 10 Dec 1993 14:14:04 GMT  
From: pacbell.com!sgiblab!sdd.hp.com!col.hp.com!news.dtc.hp.com!hplextra!  
hpscit.sc.hp.com!hpubmaa.esr.hp.com!garhow@network.ucsd.edu  
To: info-hams@ucsd.edu

References <gregCHrsuv.3Jt@netcom.com>,  
<jchappel.80.755465269@sanders.lockheed.com>, <gregCHtM06.AzD@netcom.com>  
Subject : Re: Scratchi, January, 1960

--

In article <gregCHtM06.AzD@netcom.com>, greg@netcom.com (Greg Bullough) writes:  
|> In article <jchappel.80.755465269@sanders.lockheed.com>  
jchappel@sanders.lockheed.com (Joel Chappell) writes:

|> >  
|> >Greg - This is so typical of liberal behavior. Yes it was the best without  
|> >really flaming yer butt....  
|>  
|> Well, gawwwllleeee. My butt's hottern' a leaky ol' still. What is this,  
|> the 'Hampshire Hillbillies?  
|>

Well Greg it finally comes out. You obviously have some prejudices of your own. You just did the very thing your are berating everyone else for. I just happen to be from the south and I am offended that you mock our speech patterns and imply that we are all just a bunch of ignorant hillbillies.

You posted the mail from the gentleman who is half-Asian and was teased as a child for it. We moved out of the south for a period when I was growing up and I was teased and mocked for my southern drawl and the way I talked. The other kids imitated my southern accent just the way you are doing. I bet it does chap your PC ass to know you are no better than those you criticize.

But you know what? It doesn't really bother me, I am just putting you on. I really did grow up in the south and I was teased as a kid but I don't take such things personally. I can laugh at the Beverley Hillbillies, and Green Acres, and even the Ernest movies without feeling personally attacked. As others have tried to point out it is the intent that is important. I seriously doubt that there is a single participant in this thread who would condone blatant and vicious racism or prejudice. That wasn't the intent of the person who originally posted the article and probably wasn't the intent of the author either but I have no way of knowing so I personally choose to give him the benefit of the doubt.

It has gotten to the point where you can't do or say anything in this country without offending someone for something and they're going to get in your face about it. Lighten up! Yuh know whut ah meen, Vern?

---

Garry Howard - KE0SH - Cambridge, MA - garhow@a4450gh.esr.hp.com

-----

Date: Sat, 11 Dec 1993 00:24:50 GMT  
From: netcomsv!netcomsv!cirrus!csparc046!ebs@decwrl.dec.com  
To: info-hams@ucsd.edu

References <1993Dec7.234425.4647@ke4zv.atl.ga.us>,  
<1993Dec8.184205.20082@ll.mit.edu>, <1993Dec9.162128.12183@ke4zv.atl.ga.us>  
Subject : Re: hypochondriac scared of cancer!

Here is another angle on the field strength calculation.



I think we are all converging on the same method of calculation, but we have differences in our math for some reason.

The Problem: Calculate the power density at a point near the ground that is 100ft away from the top of a 70ft antenna tower. The antenna is outputting 3000 Watts at 104MHz.

Constants: 100ft = 30.8m = 3080cm  
70ft = 21.5m = 2150cm  
Zo of air = 377 Ohms  
Wavelength of 104MHz = 2.88m

Assumptions:

1. The antenna is a simple vertical half dipole ( $l=0.72m$ ).
2. Since the distances we are dealing with are many wavelengths away from the antenna, and the antenna is small compared with these distances ( $0.72m$  vs  $21.5m$ ), we can assume the radiation pattern is approx. spherical.
3. Ground wave reflections add in phase with the incident wave. As soon as the wave travels 70ft or so we will have ground wave reflections and standing waves.

These are definitely worst case assumptions, except for possible antenna gain in the direction of the dorm window.

Formulas:

1. Surface area of sphere =  $SA = 4\pi r^2$
2. Incident wave power =  $PI = \text{Power at Antenna}$   
-----  
Surface Area of Sphere  
(calculated at a distance  $r$  from the antenna)
3. Total power density  $PD = PI + PR(\text{reflected power}) = 2\pi PI$
4. Field Strength =  $E = \sqrt{Z_o \cdot PD}$

Calculations:

1.  $SA = 4\pi \cdot 3080^2 = 119e6 \text{ cm}^2$
2.  $PI = 3000/119e6 = 25.2\mu W/\text{cm}^2$
3.  $PD = 2 \cdot 25.2\mu W/\text{cm}^2 = 50.4\mu W/\text{cm}^2$
4.  $E = \sqrt{377 \cdot 50.4e-6} = 138\text{mv/cm} = 13.8\text{v/m}$

A power density of  $50\mu W/\text{cm}^2$  is about 20 times lower than the ANSI specified safe power limit of  $1\text{mW}/\text{cm}^2$  (at 104MHz). Several things are likely to make the actual power density lower.

1. Power actually drops off as  $1/r^3$  for several wavelengths around the antenna, not the  $1/r^2$  that was assumed here.
2. The dorm building will probably have a metallic structure that will tend to attenuate the power (though not nearly as much as it will attenuate HF power).

3. Reflected power may not add to incident power it may subtract.  
If there is antenna gain in the direction of the dorm, this would tend to offset 1 and 2 above, but I would be surprised to see a field strength as high as 13.8v/m in the dorm room.

If the original poster is still concerned, you may be able to borrow a field strength meter from your campus Engineering dept, or from the nearby radio station (if you state why you want to borrow it). You would have to be at 61.4v/m to be at the ANSI limit of 1mW/cm<sup>2</sup>.

Cheers,  
Eric

```
* * * * *
*               ^      *
*  Eric Smith   <+>   *
*  Design Engineer    v   *
*  Crystal Semiconductor      *
*  Austin, Texas          *
*  (512) 442-7555 X 363      *
*  ebs@crystal.cirrus.com    *
*                          *
* * * * *
```

-----

End of Info-Hams Digest V93 #1457  
\*\*\*\*\*  
\*\*\*\*\*